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L2: Entry 2 of 2

File: DWPI

Jan 22, 1992

DERWENT-ACC-NO: 1992-075435

DERWENT-WEEK: 199750

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TITLE: Ink compsn. for printing plain paper - comprises aq. medium contg. water and water soluble organic solvent, pigment, water soluble resin and subst. alcohol

## PATENT-ASSIGNEE:

ASSIGNEE

CODE

CANON KK

CANO

PRIORITY-DATA: 1990JP-0122035 (May 10, 1990)

## PATENT-FAMILY:

| PUB-NO               | PUB-DATE          | LANGUAGE | PAGES | MAIN-IPC   |
|----------------------|-------------------|----------|-------|------------|
| <u>JP 04018465 A</u> | January 22, 1992  |          | 011   |            |
| JP 2675898 B2        | November 12, 1997 |          | 010   | C09D011/00 |

## APPLICATION-DATA:

| PUB-NO       | APPL-DATE    | APPL-NO        | DESCRIPTOR     |
|--------------|--------------|----------------|----------------|
| JP 04018465A | May 10, 1990 | 1990JP-0122035 |                |
| JP 2675898B2 | May 10, 1990 | 1990JP-0122035 |                |
| JP 2675898B2 |              | JP 4018465     | Previous Publ. |

INT-CL (IPC): B41J 2/01; B41M 5/00; C09D 11/00; C09D 11/02

ABSTRACTED-PUB-NO: JP 04018465A

## BASIC-ABSTRACT:

Compsn. comprises (A) aq. medium, pref. contg. water and water-soluble organic solvent which contains pref. polyol and/or its alkyl ether and aliphatic monohydric alcohol; (B) pigment; (C) water-soluble resin, pref. less than 2 wt.%; and (D) a cpd. of formula (I), pref. 0.5-30 wt.%. In (I) l, m and n are each 0 or a positive integer and l+m+n is 1-25.

Ink jet recording discharges the ink compsn. as fine droplets from a fine nozzle by being given thermal energy corresp. to recording signals or which may be on-demand type.

(B) may be selected from (in)organic pigments. (C) is soluble in amine contg. water and has pref. a wt. average mol. wt. of 3,000-30,000 (5,000-15,000). To secure discharge stability, 3-15 wt.% of aliphatic alcohol, e.g., ethanol or isopropanol is pref. used as part of water-soluble organic solvent.

USE/ADVANTAGE - The ink compsn. is suitable for printing plain paper with an ink jet process wherein the ink compsn. is discharged by thermal energy added to it corresp. to recording signals. This ink compsn. has long storage stability without clogging the nozzle chip, is stably discharged regardless of variation of operating conditions and

long continuous use and gives quick fixing, high conc., rub resistant, reliable and durable printing.

CHOSEN-DRAWING: Dwg.0/5

TITLE-TERMS: INK COMPOSITION PRINT PLAIN PAPER COMPRISE AQUEOUS MEDIUM CONTAIN WATER  
WATER SOLUBLE ORGANIC SOLVENT PIGMENT WATER SOLUBLE RESIN SUBSTITUTE ALCOHOL

DERWENT-CLASS: A97 E17 G02 G05 P75

CPI-CODES: A12-W07D; E10-E04J; G02-A04A; G05-F;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

H4 H403 H483 H5 H581 H582 H583 H584 H589 H8  
M280 M312 M313 M321 M322 M323 M332 M342 M343 M383  
M392 M393 M416 M620 M781 M903 M904 Q332 R023

Markush Compounds

199210-C3401-U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0013 0231 1279 1588 1592 2002 2014 2575 2585 2812

Multipunch Codes: 014 028 039 04- 147 198 231 240 31- 336 532 537 575 583 589 656 659 688 720 023  
127 158 159 200 201 257 258 281

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-034616

Non-CPI Secondary Accession Numbers: N1992-056514